


TONER CONCENTRATION DETECTING SENSOR**Patent number:** JP2001116686**Publication date:** 2001-04-27**Inventor:** MASUMURA TOMOHIRO**Applicant:** NEC NIIGATA LTD**Classification:****- international:** G01N21/15; G01N21/59; G03G15/08**- european:****Application number:** JP19990295615 19991018**Priority number(s):****Also published as:** US6370342 (B1)**Abstract of JP2001116686**

PROBLEM TO BE SOLVED: To prevent sticking of toner to an optical material surface without impairing light transmissivity and performance of a liquid developer in a toner concentration detecting sensor.

SOLUTION: This toner concentration detecting sensor excellent in an antifouling property is provided by arranging an extremely thin and excellently light transmissive chemical adsorption film 17 of a nanometer or angstrom unit via a siloxane bond by using an organosilane compound (most suitably, a silane compound having a long chain alkyl group or an organic functional group including fluorine) on a surface of an optical material 12 contacting with a liquid developer and being arranged in an optical path.

